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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10410 (1983): Lock Nuts for Bulk Head Coupling Assembly
for Oil-hydraulic Systems [PGD 17: Fluid Power Fittings,
Hoses and Hose Assemblies]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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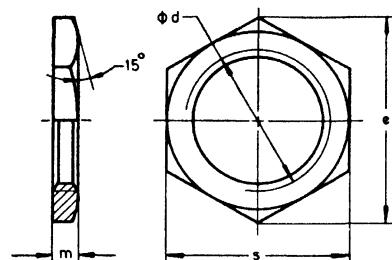
Indian Standard

**SPECIFICATION FOR
LOCK NUTS FOR BULK HEAD COUPLING
ASSEMBLY FOR OIL-HYDRAULIC SYSTEMS**

1. Scope — Specifies the dimensions, material and other requirements for lock nuts for bulk head coupling assemblies used in oil-hydraulic systems.

2. Dimensions — Shall be as given in Table 1.

TABLE 1 DIMENSIONS FOR LOCK NUTS
All dimensions in millimetres.



| <i>d</i> * | <i>m</i> | <i>a</i> | <i>s</i> |
|------------|----------|----------|----------|
| M12 × 1·5 | | 19·6 | 17 |
| M14 × 1·5 | | 21·9 | 19 |
| M16 × 1·5 | 6 | 25·4 | 22 |
| M18 × 1·5 | | 27·7 | 24 |
| M20 × 1·5 | | 31·2 | 27 |
| M22 × 1·5 | | 34·6 | 30 |
| M24 × 1·5 | 7 | 36·9 | 32 |
| M26 × 1·5 | | 41·6 | 36 |
| M30 × 2 | 8 | 47·3 | 41 |
| M36 × 2 | | 53·1 | 46 |
| M42 × 2 | | 57·7 | 50 |
| M45 × 2 | | 63·5 | 55 |
| M52 × 2 | 9 | 75·0 | 65 |

*Threads conforming to IS : 4218 (Part IV) 1976 'ISO metric screw threads : Part IV Tolerancing system ('first revision')' Class 6H.

2.1 Tolerance — The lock nuts shall conform to product grade B of IS : 1367 (Part II)-1979 'Technical supply conditions for threaded steel fasteners : Part II Product grades and tolerances (second revision)'.

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3. Material — Steel conforming to property class 14 H of IS : 1367 (Part VII)-1980 'Technical supply conditions for threaded steel fasteners : Part VII Mechanical properties and test methods, for nuts without specified proof loads (*second revision*)'.

4. Surface Protection — Lock nuts shall be phosphated to class A2 of IS : 3618-1966 'Phosphate treatment of iron and steel for protection against corrosion', unless otherwise agreed to between the user and the manufacturer.

5. General Requirements

5.1 These lock nuts shall be used with straight bulk head bodies conforming to IS : 9768-1981 'Bulkhead straight body for oil-hydraulic couplings', IS : 9757 (Part I)-1981 'Bulkhead elbow body for oil-hydraulic couplings: Part I Made from forgings', and IS : 9757 (Part II)-1983 'Bulkhead elbow body for oil-hydraulic couplings : Part II Made from bar stock' in line with their assemblies, conforming to IS : 9769-1981 'Bulkhead straight coupling assembly for oil-hydraulic systems', and IS : 9770-1981 'Bulkhead elbow coupling assembly for oil-hydraulic systems'.

6. Designation — A lock nut with thread size M12 × 1.5 and conforming to this standard shall be designated as:

Lock Nut M12 × 1.5 IS : 10410

7. Marking — The cartons containing the lock nuts shall be marked with the designation of the lock nut and the manufacturer's name or trade-mark.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

EXPLANATORY NOTE

In the preparation of this standard considerable assistance has been derived from DIN 80705:1969 'Thin nuts with small widths across flats; metric thread, metric fine threads'. Deutsches Institut für Normung (DIN).

AMENDMENT NO. 1 DECEMBER 2002
TO
**IS 10410 : 1983 SPECIFICATION FOR LOCK NUTS FOR
BULK HEAD COUPLING ASSEMBLY FOR
OIL- HYDRAULIC SYSTEMS**

(*Page 1, Table 1, col 'm', last entry*) — Substitute '10' for '9'.

(*Page 1, Table 1, col 's'*) — Substitute 's[†]' for 's'.

(*Page 1, Table 1, footnote*) — Insert the following new footnote after the existing one:

•[†]Tolerance on dimension shall be h13 up to 32 mm and h14 above 32 mm.'

(BP 17)

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